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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/807,677	04/16/2001	Ludwig Hofmann	112740-206	2308
29177 7	590 11/22/2005	EXAMINER		
BELL, BOYD & LLOYD, LLC P. O. BOX 1135			ELAHEE, MD S	
CHICAGO, IL			ART UNIT	PAPER NUMBER
			2645	

DATE MAILED: 11/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		09/807,677	HOFMANN, LUDWIG		
		Examiner	Art Unit		
		Md S. Elahee	2645		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE is a soins of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATI  16(a). In no event, however, may a reply be  rill apply and will expire SIX (6) MONTHS fr  cause the application to become ABANDO	ON.  e timely filed  om the mailing date of this communication.  NED (35 U.S.C. § 133).		
Status					
2a)⊠	Responsive to communication(s) filed on <u>22 At</u> This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters,			
Dispositi	on of Claims				
5)□ 6)⊠ 7)□ 8)□	Claim(s) 16-28,33-53 and 58-65 is/are pending 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 16-28,33-53 and 58-65 is/are rejected Claim(s) is/are objected to. Claim(s) are subject to restriction and/or are subject to restriction and/or are subject to restriction.	vn from consideration.			
_	on Papers				
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the example of the description of the description of the correct of the oath or declaration is objected to by the Example of the correct of the oath or declaration is objected to by the Example of the correct of the oath or declaration is objected to by the Example of the correct of the correct of the oath or declaration is objected to by the Example of the correct of	epted or b) objected to by the drawing(s) be held in abeyance. So on is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).		
Priority u	ınder 35 U.S.C. § 119		•		
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					
2) Notic 3) Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4)  Interview Summa Paper No(s)/Mai 5)  Notice of Informa 6)  Other:			

#### **DETAILED ACTION**

### Response to Amendment

1. This action is responsive to an amendment filed 08/22/05. Claims 16-28, 33-53 and 58-65 are pending. Claims 1-15, 29-32 and 54-57 have been previously cancelled.

## Response to Arguments

2. Applicant's arguments filed 08/22/05 have been fully considered but are most in view of the new ground(s) of rejection which is deemed appropriate to address all of the needs at this time.

### Claim Objections

3. Claims 16 and 42 are objected to because of the following informalities: regarding claim 16, the phrase 'at a least' in page 2, line 3 of the claim appears to be 'at least a' and the citation 'deactivates' in page 2, line 14 appears to be 'deactivate'. Appropriate correction is required.

Regarding claim 42 is rejected for the same reasons as discussed above with respect to claim 16.

### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

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- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. Claims 16-28, 33-53 and 58-65 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pequet et al. (European Pub. No. 0, 689,303 A1) in view of Luzzatto (U.S. Patent No. 5,689,802).

Regarding claims 16 and 42, Pequet teaches at least one base station (abstract; fig.1; page 1, lines 29-35).

Pequet further teaches a plurality of mobile stations including at a least first and a second mobile station, each of the plurality of mobile stations able to carry out transmission and reception operations in both a duplex mode and a semiduplex mode, the duplex mode being a frequency division duplex mode and the semiduplex mode being a time division duplex mode (abstract; fig.1, fig.2; page 2, lines 14-22, page 3, lines 14-22, page 4, lines 26-41, page 5, lines 66, 67, page 6, lines 1-15, 48, 58, page 7, line1).

Pequet further teaches that the first mobile station simultaneously carries out transmission and reception operations with the at least one base station in the duplex mode and carries out transmission and reception operations with the second mobile station in the semiduplex mode (fig.1, fig.2; page 2, lines 14-22, page 3, lines 14-22, page 4, page 4, lines 26-41, page 5, lines 66, 67, page 6, lines 1-15, 48, 58, page 7, line1).

Pequet teaches the transmission of signals from the second mobile station via the first mobile station to the base stations and the transmission of signals from the base station via the first mobile station to the second mobile station (fig. 1; page 3, lines 14-22).

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However, Pequet does not specifically teach that the first mobile station may switch on and off, at least one of manually and automatically to activate or deactivate the repeater operation of the first mobile station. Luzzatto teaches that the radio 11 [i.e., first mobile station] may switch on and off, at least one of manually and automatically to activate or deactivate the repeater operation of the radio 11 (fig.1, 2; col.3, lines 35-67). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Pequet to allow the first mobile station to switch on and off, at least one of manually and automatically to activate or deactivate the repeater operation of the first mobile station as taught by Luzzatto. The motivation for the modification is to have doing so in order to control the repeat operation of radio unit.

Regarding claims 17 and 43, Pequet teaches that the transmission and reception operations of the first mobile station are carried out cyclically in time slots, the time slots for the duplex and semiduplex modes running synchronously with respect to one another (fig.1, fig.2; page 2, lines 14-22, page 4, lines 26-41, page 5, lines 66, 67, page 6, lines 1-15, 48, 58).

Regarding claims 18, 19 and 44 are rejected for the same reasons as discussed above with respect to claim 1.

Regarding claims 20-23 and 46-48, Pequet teaches that the first mobile station further carries out transmission and reception operations with a third mobile station in the semiduplex mode (fig. 1, fig. 2; page 5, lines 66, 67, page 6, lines 1-15, 48, 58).

Regarding claims 24-27, Pequet teaches that the first mobile station further carries out transmission and reception operations with a third mobile station in the semiduplex mode, such that signals from the second mobile station are transmitted via the first mobile station to the third

mobile station, and signals from the third mobile station are transmitted via the first mobile station to the second mobile station (fig.1, fig.2; page 5, lines 66, 67, page 6, lines 1-15, 48, 58).

Regarding claim 28, Pequet teaches that the plurality of mobile stations are coupled to one another to form at least one of a communication chain and a communication network (abstract; fig.1; page 2, lines 14-22, page 3, lines 14-22).

Regarding claims 50-52, Pequet teaches that a part for additionally carrying out transmission and reception operations with a third mobile station in the semiduplex mode, such that signals from the second mobile station are transmitted via the first mobile station to the third mobile station, and signals from the third mobile station are transmitted via the first mobile station to the second mobile station (fig.1, fig.2; page 5, lines 66, 67, page 6, lines 1-15, 48, 58, page 7, line1).

Regarding claims 33-41, 45 and 58-65 are rejected for the same reasons as discussed above with respect to claims 18 and 20.

Regarding claims 49 and 53 are rejected for the same reasons as discussed above with respect to claims 20 and 50 simultaneously.

### Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Md S Elahee whose telephone number is (571) 272-7536. The

examiner can normally be reached on Mon to Fri from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Fan Tsang can be reached on (571) 272-7547. The fax phone number for the

organization where this application or proceeding is assigned is (571) 272-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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M.E.

MD SHAFIUL ALAM ELAHEE

November 13, 2005

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